# (19) World Intellectual Property Organization International Bureau



### 

(43) International Publication Date 20 October 2005 (20.10.2005)

**PCT** 

## (10) International Publication Number WO 2005/097194 A1

(51) International Patent Classification<sup>7</sup>: A61K 47/00, A61P 9/10

(21) International Application Number:

PCT/KR2005/001021

(22) International Filing Date: 8 April 2005 (08.04.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data: 10-2004-0024734 10 April 2004 (10.04.2004) KI

(71) Applicant (for all designated States except US): HANMI PHARM. CO., LTD. [KR/KR]; #893-5, Hajeo-ri, Paltanmyeon, Hwaseong-gun, Kyungki-do 445-910 (KR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): WOO, Jong-Soo [KR/KR]; Daewol Maeul 821-105, #914, Jeongja-dong, Jangan-gu, Suwon-si, Kyungki-do 440-300 (KR). YI,

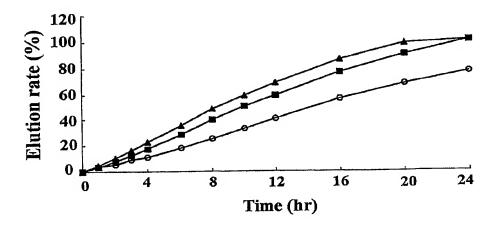
Hong-Gi [KR/KR]; Samik 2-cha Apt. 202-604, Homaesil-dong, Kwonsun-gu, Suwon-si, Kyungki-do 441-708 (KR). CHI, Moon-Hyuk [KR/KR]; 201-ho, #290-60, Gosaik-dong, Kwonsun-gu, Suwon-si, Kyungki-do 441-360 (KR). RYU, Jae-Kuk [KR/KR]; Taesan 1-cha Apt. 102-1506, Gosaik-dong, Kwonsun-gu, Suwon-si, Kyungki-do 441-360 (KR). JUNG, Si-Young [KR/KR]; 302-ho, #290-4, Gosaik-dong, Kwonsun-gu, Suwon-si, Kyungki-do 441-360 (KR). KIM, Yong-II [KR/KR]; 202-ho, #913-5, Guun-dong, Kwonsun-gu, Suwon-si, Kyungki-do 441-340 (KR).

- (74) Agents: JANG, Seongku et al.; 19th Fl., KEC Building, #275-7, Yangjae-dong, Seocho-ku, Seoul 137-130 (KR).
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ,

[Continued on next page]

(54) Title: SUSTAINED RELEASE FORMULATION FOR ORAL ADMINISTRATION OF HMG-COA REDUCTASE INHIBITOR AND METHOD FOR THE PREPARATION THEREOF

—— Example 4 50 rpm —— Example 4 100 rpm
——— Example 4 150 rpm



(57) Abstract: The sustained release formulation for oral administration of an HMG-CoA reductase inhibitor of the present invention can be easily and economically prepared and is capable of maintaining a constant drug level in blood by slowly releasing the HMG-CoA reductase inhibitor at a uniform rate for 24 hrs. Accordingly, the sustained release formulation of the present invention can be effectively used for lowering blood cholesterol and triglyceride levels.

### 

TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO,

SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

#### Published:

- with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.